EXHIBIT E

Genbank Acc : NP_036224

XP-002094461

Zitierte Entgegenhaltung
P.D. 11-12 PCT/DE 98/02896
BUNDESREPUBLIK DEUTSCHLAND,...
p. ..... Unser Zeichen: 169-2 PCT

ID W75956 standard; Protein; 199 AA.
AC W75956;
DT 11-DEC-1998 (first entry)
DE Human cell surface protein #1.
KW Human; cell surface protein; thymocyte; lymphocyte; cell adhesion;
KW signal transmission; autoimmune disorder; allergy; diagnosis;
KW mitogen-stimulated.
OS Homo sapiens.
PN WO9838216-A1.
PD 03-SEP-1998.
PF 27-FEB-1998; J00837.
PR 26-FEB-1998; JP-062217.
PR 27-FEB-1997; JP-062290.
PA (NISB) JAPAN TOBACCO INC.
PI Tamatani T, Tezuka K;
DR WPI; 98-481144/41.
DR N-PSDB; V53198.
PT Cell surface molecule expressed in thymocytes and lymphocytes and -
PT mediating signal transmission and cell adhesion, and antibodies to
PT it useful in treatment of auto:immune and allergic disorders.
PS Claim 2; Page 99-101; 149pp; Japanese.
CC The present sequence represents a human cell surface protein which is
CC expressed by thymocytes and by mitogen-stimulated lymphocytes. The cell
CC surface protein induces adhesion of mitogen-stimulated lymphocytes to
CC antibodies recognising the cell surface protein. These antibodies also
CC produce an increase in peripheral blood lymphocytes in the presence of
CC an antibody recognising CD3 antigen. The cell surface protein contains
CC the amino acid sequence FDPPPP in its extracellular region and the
CC sequence YMFM in its intracellular region. The cell surface protein can
CC be used in the prevention and treatment of autoimmune and allergic
CC diseases, and in the diagnosis and investigation of such disorders.
SQ Sequence 199 AA;

W75956 Length: 199 February 22, 1999 16:02 Type: P Check: 629 ..

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  1  MKSGLWYFFL FCLRIKVLTG EINGSANYEM FIFHNGGVQI LCKYPDIVQQ

 51  FKMQLLKGGQ ILCDLTKTKG SGNTVSIKSL KFCHSQLSNN SVSFFLYNLD

101  HSHANYYFCN LSIFDPPPFK VTLTGGYLHI YESQLCCQLK FWLPIGCAAF

151  VVVCILGCIL ICWLTKKKYS SSVHDPNGEY MFMRAVNTAK KSRLTDVTL
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Genbank Acc : NM_012092

P.D. 11-12 - Zitierte Entgegenhaltung
PCT/DE 98/02896
p. compl BUNDESREPUBLIK DEUTSCHLAND....
Unser Zeichen: 169-2 PCT

XP-002094462

ID V53199 standard; cDNA; 2610 BP.
AC V53199;
DT 11-DEC-1998 (first entry)
DE Human cell surface protein #2 encoding cDNA.
KW Human; cell surface protein; thymocyte; lymphocyte; cell adhesion;
KW signal transmission; autoimmune disorder; allergy; diagnosis;
KW mitogen-stimulated; ss.
OS Homo sapiens.
FH Key Location/Qualifiers
FT CDS 26. .625
FT /*tag= a
FT /product= "cell surface protein"
PN WO9838216-A1.
PD 03-SEP-1998.
PF 27-FEB-1998; J00837.
PR 26-FEB-1998; JP-062217.
PR 27-FEB-1997; JP-062290.
PA (NISB) JAPAN TOBACCO INC.
PI Tamatani T, Tezuka K;
DR WPI; 98-481144/41.
DR P-PSDB; W75957.
PT Cell surface molecule expressed in thymocytes and lymphocytes and -
PT mediating signal transmission and cell adhesion, and antibodies to
PT it useful in treatment of auto:immune and allergic disorders.
PS Claim 9; Page 101-105; 149pp; Japanese.
CC The present sequence encodes a human cell surface protein which is
CC expressed by thymocytes and by mitogen-stimulated lymphocytes. The cell
CC surface protein induces adhesion of mitogen-stimulated lymphocytes to
CC antibodies recognising the cell surface protein. These antibodies also
CC produce an increase in peripheral blood lymphocytes in the presence of
CC an antibody recognising CD3 antigen. The cell surface protein contains
CC the amino acid sequence FDPPPF in its extracellular region and the
CC sequence YMFM in its intracellular region. The cell surface protein can
CC be used in the prevention and treatment of autoimmune and allergic
CC diseases, and in the diagnosis and investigation of such disorders.
SQ Sequence 2610 BP; 743 A; 544 C; 505 G; 815 T;

V53199 Length: 2610 February 22, 1999 15:34 Type: N Check: 359 ..

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   1  GGACTGTTAA CTGTTTCTGG CAAACATGAA GTCAGGCCTC TGGTATTTCT

  51  TTCTCTTCTG CTTGCGCATT AAAGTTTTAA CAGGAGAAAT CAATGGTTCT

 101  GCCAATTATG AGATGTTTAT ATTTCACAAC GGAGGTGTAC AAATTTTATG

 151  CAAATATCCT GACATTGTCC AGCAATTTAA AATGCAGTTG CTGAAAGGGG

 201  GGCAAATACT CTGCGATCTC ACTAAGACAA AAGGAAGTGG AAACACAGTG

 251  TCCATTAAGA GTCTGAAATT CTGCCATTCT CAGTTATCCA ACAACAGTGT

 301  CTCTTTTTTT CTATACAACT TGGACCATTC TCATGCCAAC TATTACTTCT

 351  GCAACCTATC AATTTTTGAT CCTCCTCCTT TTAAAGTAAC TCTTACAGGA

 401  GGATATTTGC ATATTTATGA ATCACAACTT TGTTGCCAGC TGAAGTTCTG

 451  GTTACCCATA GGATGTGCAG CCTTTGTTGT AGTCTGCATT TTGGGATGCA

 501  TACTTATTTG TTGGCTTACA AAAAAGAAGT ATTCATCCAG TGTGCACGAC

 551  CCTAACGGTG AATACATGTT CATGAGAGCA GTGAACACAG CCAAAAAATC

 601  TAGACTCACA GATGTGACCC TATAATATGG AACTCTGGCA CCCAGGCATG

 651  AAGCACGTTG GCCAGTTTTC CTCAACTTGA AGTGCAAGAT TCTCTTATTT

 701  CCGGGACCAC GGAGAGTCTG ACTTAACTAC ATACATCTTC TGCTGGTGTT

 751  TTGTTCAATC TGGAAGAATG ACTGTATCAG TCAATGGGGA TTTTAACAGA
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 851  GCTTTGGAGA AAGCCCAGCT CCTGTGTGCT CACTGGGAGT GGAATCCCTG
 901  TCTCCACATC TGCTCCTAGC AGTGCATCAG CCAGTAAAAC AAACACATTT
 951  ACAAGAAAAA TGTTTTAAAG ATGCCAGGGG TACTGAATCT GCAAAGCAAA
1001  TGAGCAGCCA AGGACCAGCA TCTGTCCGCA TTTCACTATC ATACTACCTC

1051  TTCTTTCTGT AGGGATGAGA ATTCCTCTTT TAATCAGTCA AGGGAGATGC
1101  TTCAAAGCTG GAGCTATTTT ATTTCTGAGA TGTTGATGTG AACTGTACAT
1151  TAGTACATAC TCAGTACTCT CCTTCAATTG CTGAACCCCA GTTGACCATT
1201  TTACCAAGAC TTTAGATGCT TTCTTGTGCC CTCAATTTTC TTTTTAAAAA
1251  TACTTCTACA TGACTGCTTG ACAGCCCAAC AGCCACTCTC AATAGAGAGC
1301  TATGTCTTAC ATTCTTTCCT CTGCTGCTCA ATAGTTTTAT ATATCTATGC
1351  ATACATATAT ACACACATAT GTATATAAAA TTCATAATGA ATATATTTGC
1401  CTATATTCTC CCTACAAGAA TATTTTTGCT CCAGAAAGAC ATGTTCTTTT
1451  CTCAAATTCA GTTAAAATGG TTTACTTTGT TCAAGTTAGT GGTAGGAAAC
1501  ATTGCCCGGA ATTGAAAGCA AATTTAWWTT ATTATCCTAT TTTCTACCAT

1551  TATCTATGTT TTCATGGTGC TATTAATTAC AAGTTTAGTT CTTTTTGTAG
1601  ATCATATTAA AATTGCAAAC AAAATCATCT TTAATGGGCC AGCATTCTCA
1651  TGGGGTAGAG CAGAATATTC ATTTAGCCTG AAAGCTGCAG TTACTATAGG
1701  TTGCTGTCAG ACTATACCCA TGGTGCCTCT GGGCTTGACA GGTCAAAATG
1751  GTCCCCATCA GCCTGGAGCA GCCCTCCAGA CCTGGGTGGA ATTCCAGGGT
1801  TGAGAGACTC CCCTGAGCCA GAGGCCACTA GGTATTCTTG CTCCCAGAGG
1851  CTGAAGTCAC CCTGGGAATC ACAGTGGTCT ACCTGCATTC ATAATTCCAG
1901  GATCTGTGAA GAGCACATAT GTGTCAGGGC ACAATTCCCT CTCATAAAAA
1951  CCACACAGCC TGGAAATTGG CCCTGGCCCT TCAAGATAGC CTTCTTTAGA
2001  ATATGATTTG GCTAGAAAGA TTCTTAAATA TGTGGAATAT GATTATTCTT

2051  AGCTGGAATA TTTTCTCTAC TTCCTGTCTG CATGCCCAAG GCTTCTGAAG
2101  CAGCCAATGT CGATGCAACA ACATTTGTAA CTTTAGGTAA ACTGGGATTA
2151  TGTTGTAGTT TAACATTTTG TAACTGTGTG CTTATAGTTT ACAAGTGAGA
2201  CCCGATATGT CATTATGCAT ACTTATATTA TCTTAAGCAT GTGTAATGCT
2251  GGATGTGTAC AGTACAGTAC WTAACTTGTA ATTTGAATCT AGTATGGTGT
2301  TCTGTTTTCA GCTGACTTGG ACAACCTGAC TGGCTTTGCA CAGGTGTTCC
2351  CTGAGTTGTT TGCAGGTTTC TGTGTGTGGG GTGGGGTATG GGGAGGAGAA
2401  CCTTCATGGT GGCCCACCTG GCCTGGTTGT CCAAGCTGTG CCTCGACACA
2451  TCCTCATCCC AAGCATGGGA CACCTCAAGA TGAATAATAA TTCACAAAAT
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